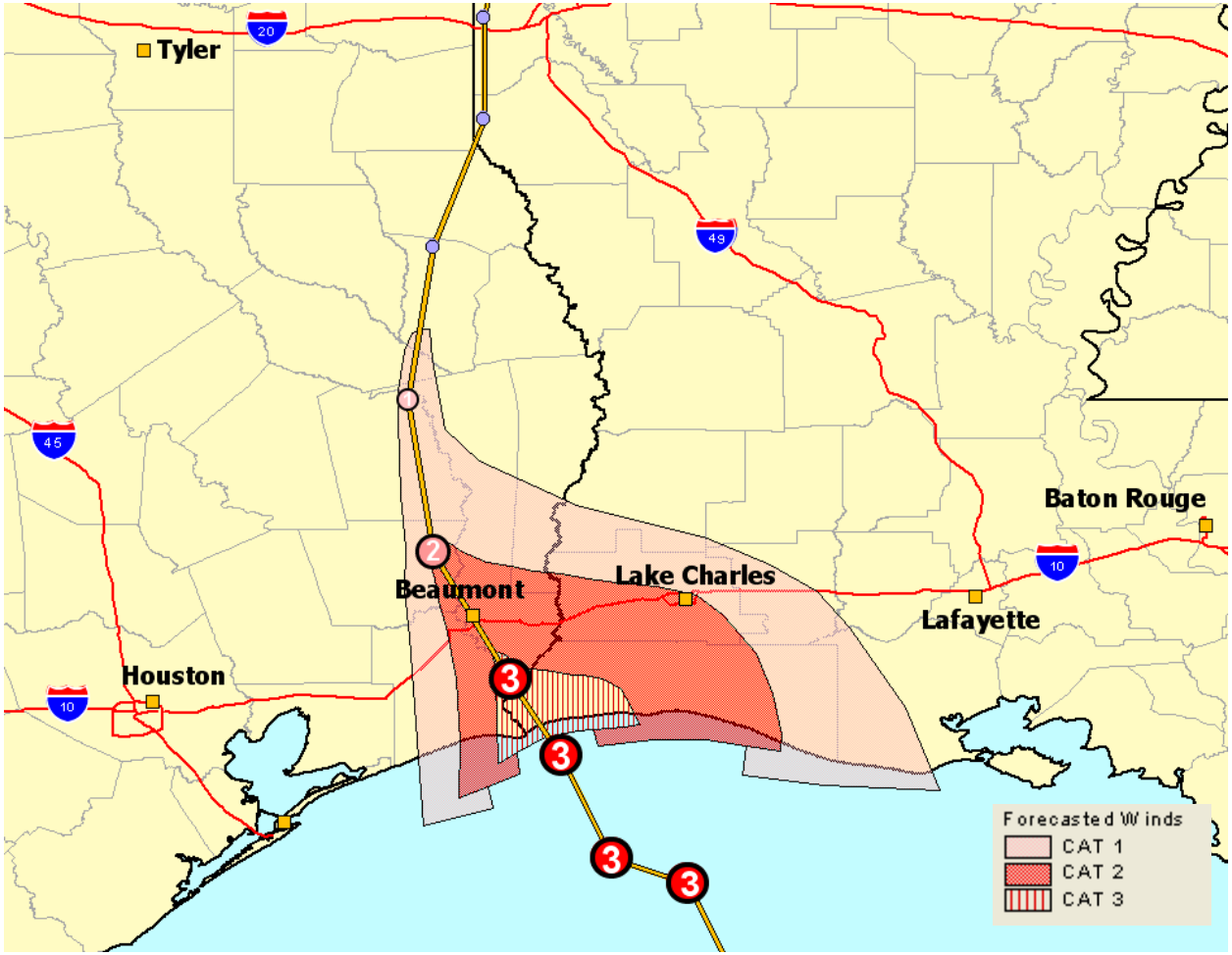
Hurricane Rita Wind Distribution

Landfall Plus About 24 Hours

For Official Use Only!



Most Probable Wind Distribution

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Wind Fields

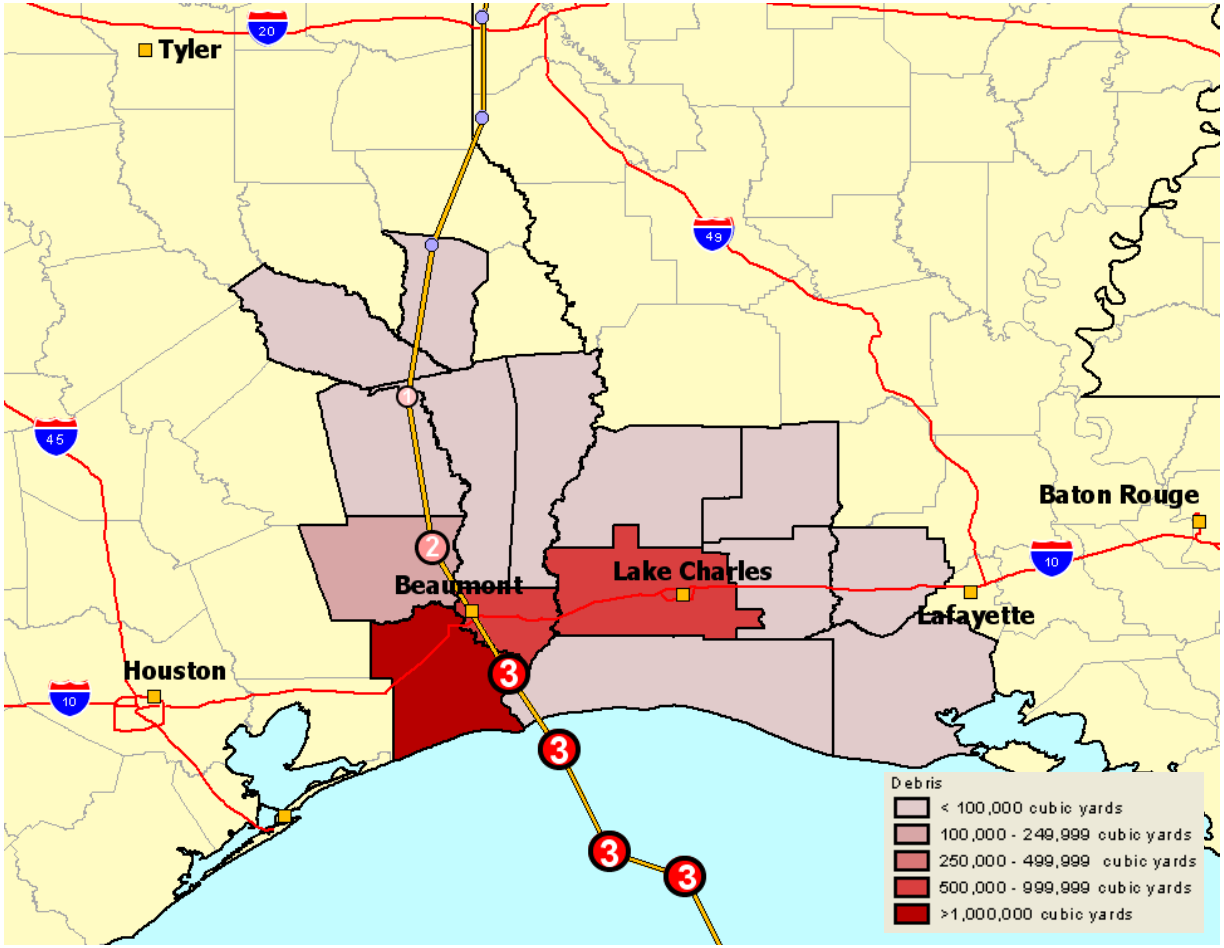
Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Plus About **24** Hours

For Official Use Only!



Most Probable Debris Model Results

Texas – 3,263,000 yd^3
Louisiana – 1,094,000 yd^3

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Debris Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Plus About **24** Hours

For Official Use Only!

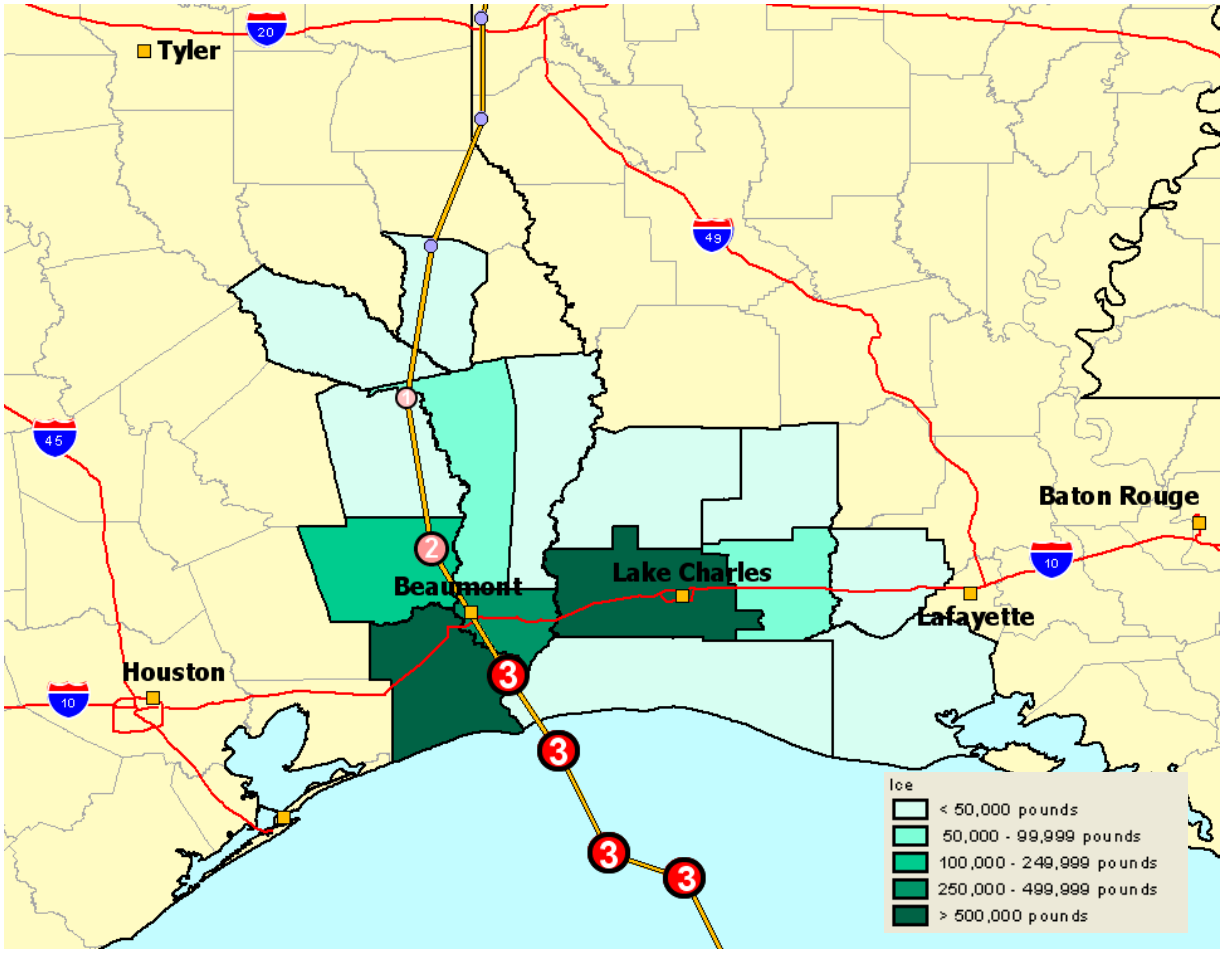
State	County/Parish	Yards per County/Parish
Louisiana		
	Acadia	1,000
	Allen	1,000
	Beauregard	6,000
	Calcasieu	964,000
	Cameron	85,000
	Jeff'n Davis	30,000
	Vermilion	7,000
Louisiana		1,094,000
Texas		
	Angelina	1,000
	Cameron	1,000
	Hardin	115,000
	Jasper	43,000
	Jefferson	2,535,000
	Newton	18,000
	Orange	537,000
	San Augustine	1,000
	Tyler	12,000
Texas		3,263,000
TOTAL		4,357,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Rita Ice Model

Landfall Plus About **24** Hours



For Official Use Only!

Most Probable Ice Model Results

Texas –
9 Truckloads Day One
18 Truckloads Day Two
36 Truckloads Day Three

Louisiana –
6 Truckloads Day One
11 Truckloads Day Two
22 Truckloads Day Three

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Ice Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Ice Model

Landfall Plus About **24** Hours

For Official Use Only!

State	County/Parish	Pounds Per County/Parish - Day 3	Truckloads Per County/Parish - Day 3
Louisiana	Acadia	1,000	1
	Allen	1,000	1
	Beauregard	13,000	1
	Calcasieu	587,000	15
	Cameron	32,000	1
	Jeff'n Davis	56,000	2
	Vermilion	11,000	1
Louisiana		701,000	22
Texas	Angelina	3,000	1
	Hardin	111,000	3
	Jasper	58,000	2
	Jefferson	787,000	20
	Newton	19,000	1
	Orange	272,000	7
	San Augustine	1,000	1
	Tyler	24,000	1
Texas		1,275,000	36
TOTAL		1,976,000	58

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for ice.

Details about this model may be obtained at

https://englink.usace.army.mil

or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

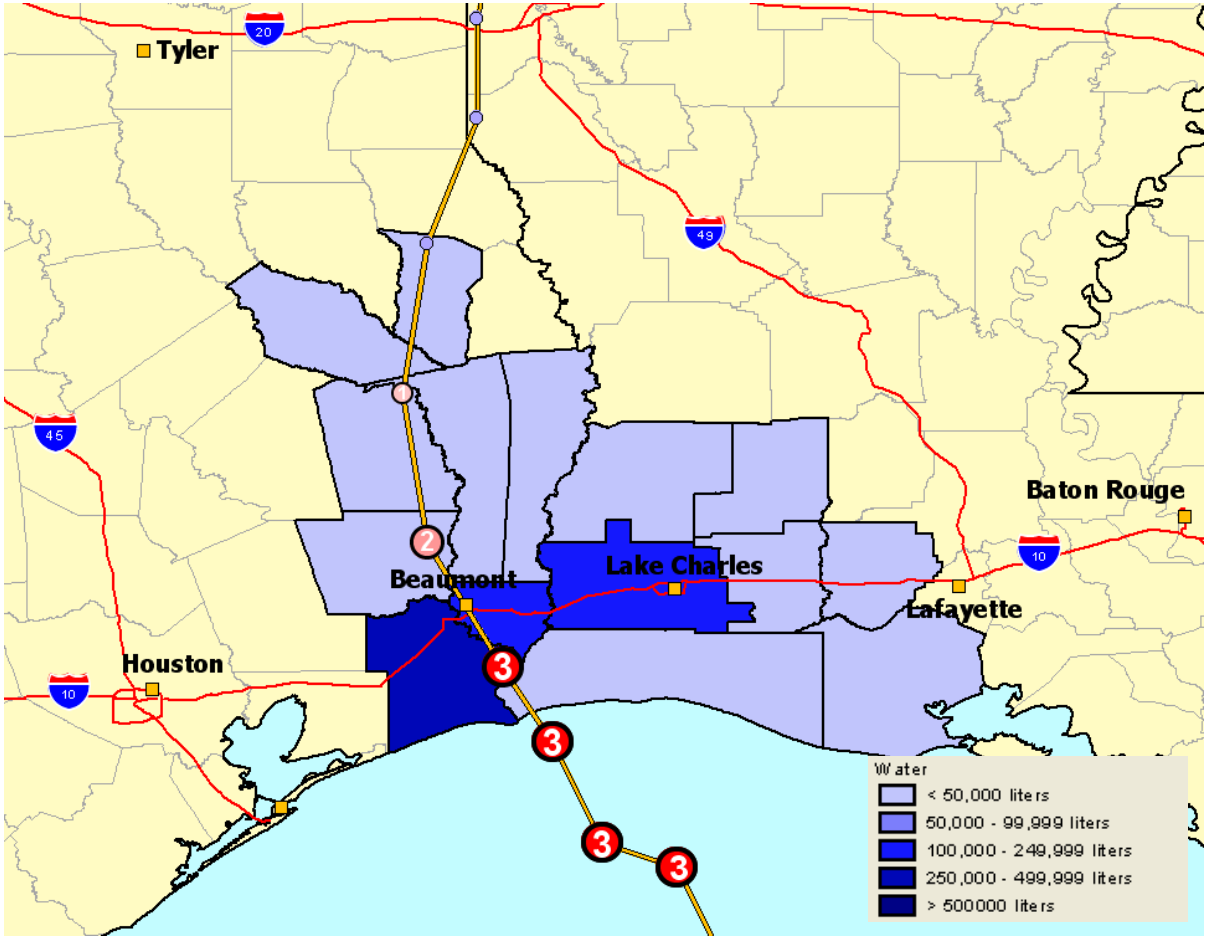
Hurricane Rita Ice Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Water Model

Landfall Plus About **24** Hours



For Official Use Only!

Most Probable Water Model Results

Texas –
9 Truckloads Day One
18 Truckloads Day Two
36 Truckloads Day Three

Louisiana –
6 Truckloads Day One
11 Truckloads Day Two
22 Truckloads Day Three

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Water Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Water Model

Landfall Plus About **24** Hours

For Official Use Only!

State	County/Parish	Liters Per County/Parish - Day 3	Truckloads Per County/Parish - Day 3
Louisiana	Acadia	1,000	1
	Allen	1,000	1
	Beauregard	5,000	1
	Calcasieu	220,000	15
	Cameron	12,000	1
	Jeff'n Davis	21,000	2
	Vermilion	4,000	1
Louisiana			22
Texas	Angelina	1,000	1
	Hardin	41,000	3
	Jasper	22,000	2
	Jefferson	295,000	20
	Newton	7,000	1
	Orange	102,000	7
	San Augustine	1,000	1
	Tyler	9,000	1
Texas			36
TOTAL		742,000	58

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Water Model

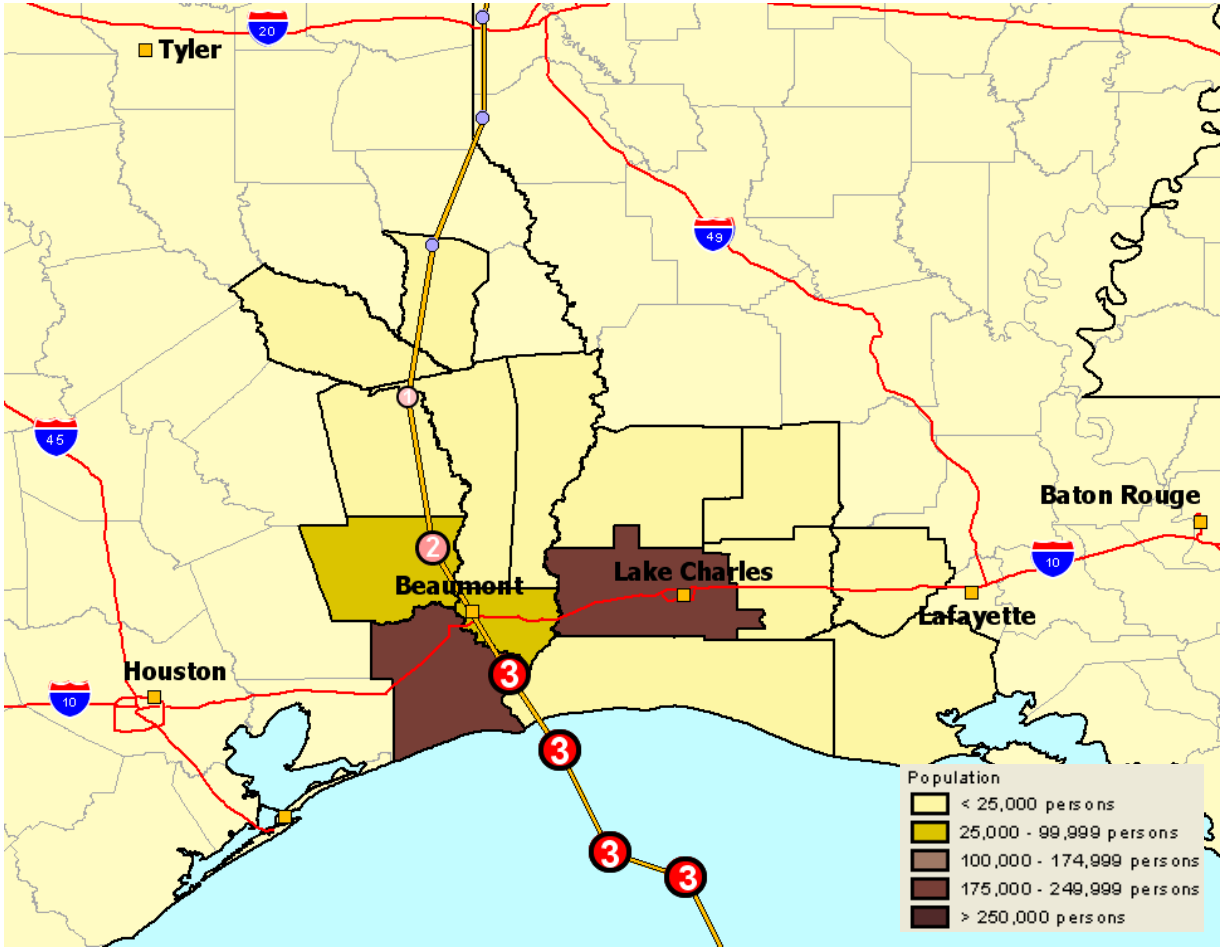
Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Population Model

Landfall Plus About **24** Hours

For Official Use Only!



Most Probable Population Model Results

Texas – 394,000 persons
Louisiana – 218,000 persons

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Population Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Population Model

Landfall Plus About 24 Hours

For Official Use Only!

State	County/Parish	Population per County/Parish
Louisiana		
	Acadia	1,000
	Allen	1,000
	Beauregard	4,000
	Calcasieu	180,000
	Cameron	10,000
	Jeff'n Davis	18,000
	Vermilion	4,000
Louisiana		218,000
Texas		
	Angelina	1,000
	Cameron	1,000
	Hardin	35,000
	Jasper	18,000
	Jefferson	240,000
	Newton	6,000
	Orange	85,000
	San Augustine	1,000
	Tyler	7,000
Texas		394,000
TOTAL		612,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers **Hurricane Rita Population Model**

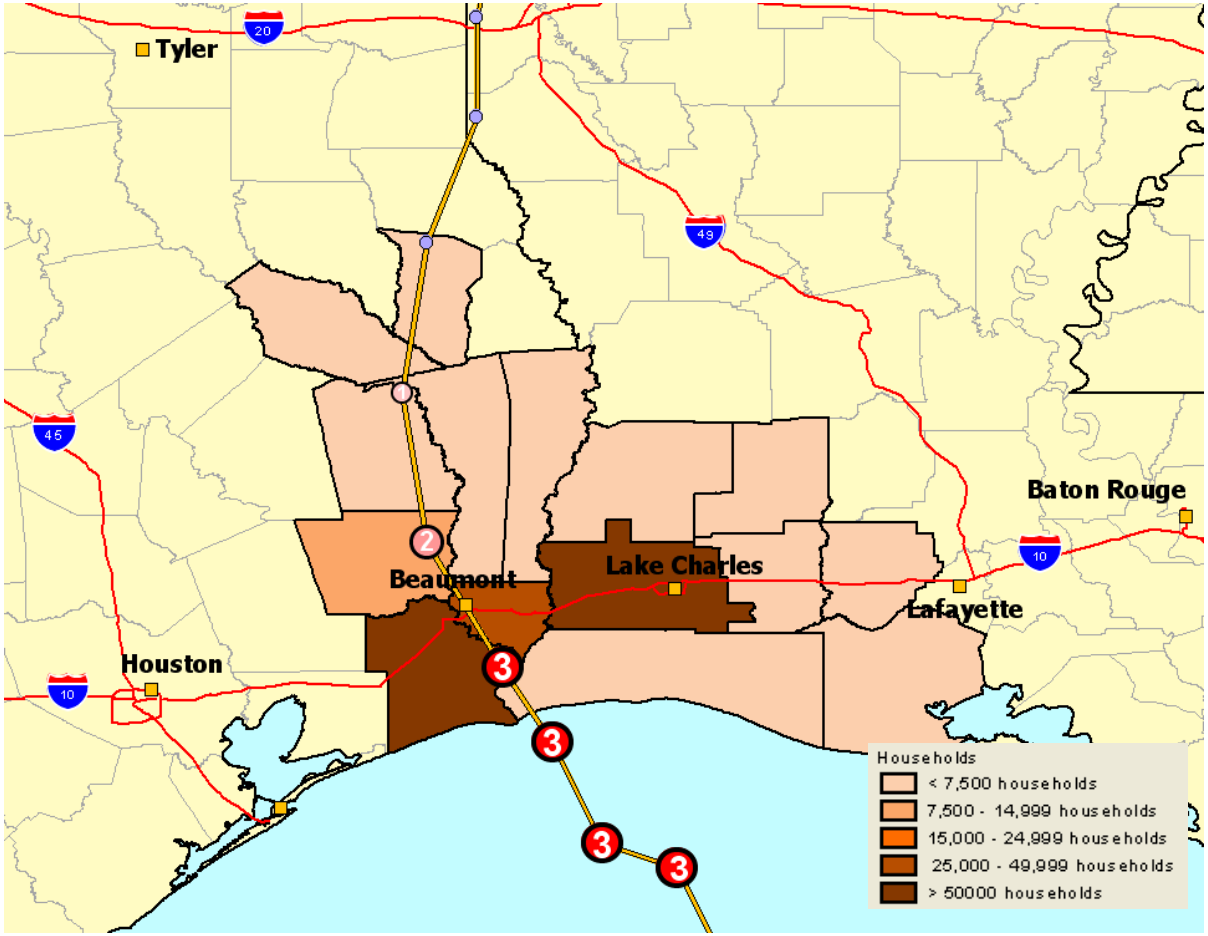
Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Plus About **24** Hours

For Official Use Only!



Most Probable Households Model Results

Texas – 151,000 households
Louisiana - 81,000 households

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Plus About **24** Hours

For Official Use Only!

State	County/Parish	Households Per County/Parish
Louisiana	Acadia	1,000
	Allen	1,000
	Beauregard	1,000
	Calcasieu	67,000
	Cameron	4,000
	Jeff'n Davis	6,000
	Vermilion	1,000
Louisiana		81,000
Texas	Angelina	1,000
	Cameron	1,000
	Hardin	13,000
	Jasper	7,000
	Jefferson	91,000
	Newton	2,000
	Orange	32,000
	San Augustine	1,000
	Tyler	3,000
Texas		151,000
TOTAL		232,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

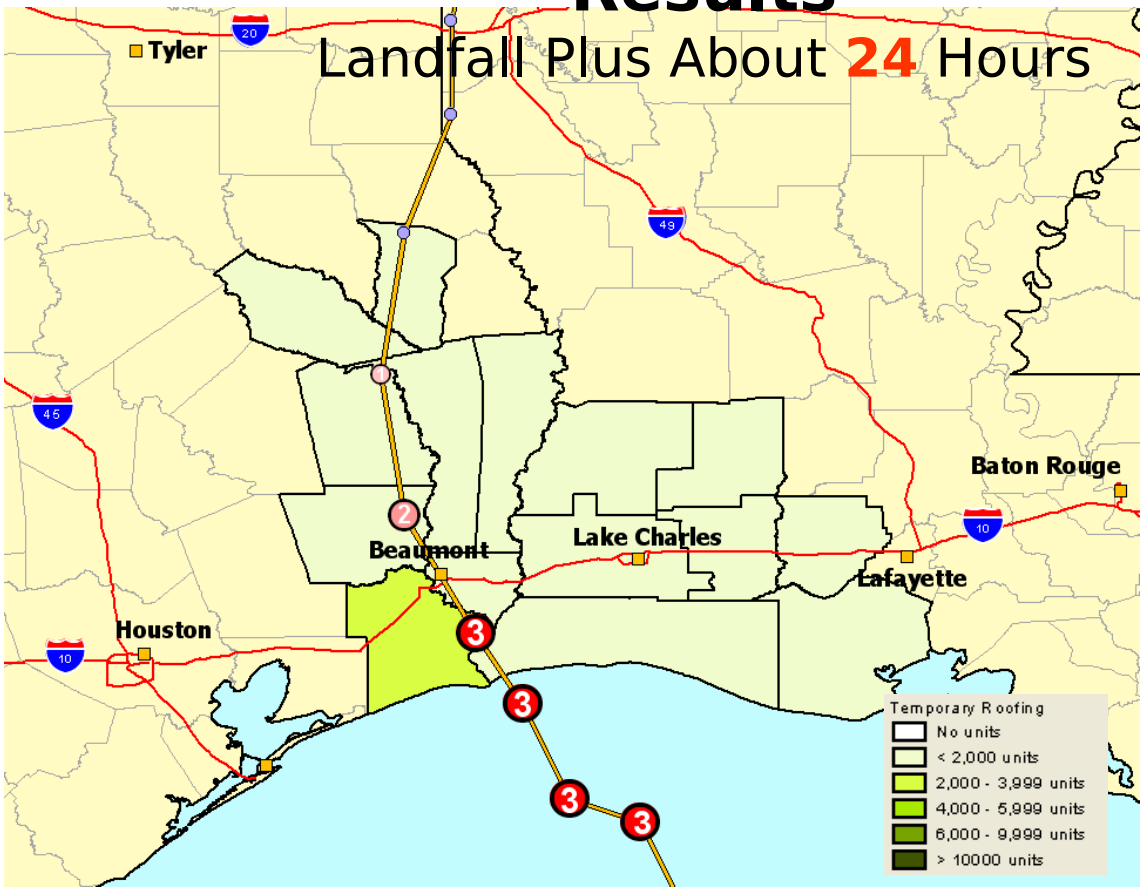
Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

For Official Use Only!



Most Probable Temporary Roofing Model Results

Texas – 4,800
Louisiana – 2,400

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Roofing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

For Official Use Only!

State	County/Parish	House Units Per County/Parish
Louisiana	Acadia	100
	Allen	100
	Beauregard	100
	Calcasieu	1,800
	Cameron	100
	Jeff'n Davis	100
	Vermilion	100
Louisiana		2,400
Texas	Angelina	100
	Hardin	300
	Jasper	100
	Jefferson	3,000
	Newton	100
	Orange	1,000
	San Augustine	100
	Tyler	100
Texas		4,800
TOTAL		7,200

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

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US Army Corps of Engineers

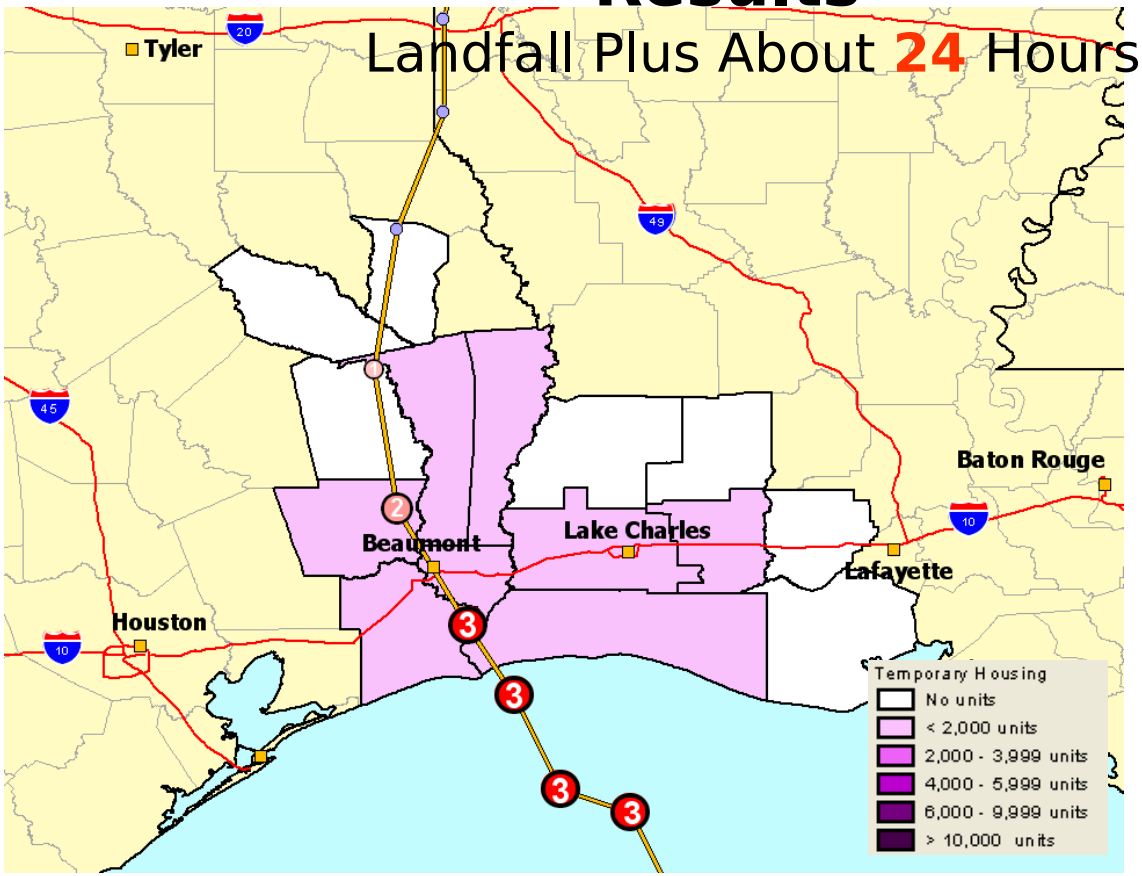
Hurricane Rita Roofing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

For Official Use Only!



Most Probable Temporary Housing Model Results

Texas – 3,100
Louisiana – 1,500

Model results per county on following page

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% housing need required in CAT 2 wind areas, and 4% housing need required in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Housing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

For Official Use Only!

State	County/Parish	House Units Per County/Parish
Louisiana	Acadia	100
	Allen	100
	Beauregard	100
	Calcasieu	900
	Cameron	100
	Jeff'n Davis	100
	Vermilion	100
Louisiana		1,500
Texas	Angelina	100
	Hardin	100
	Jasper	100
	Jefferson	1,900
	Newton	100
	Orange	600
	San Augustine	100
	Tyler	100
Texas		3,100
TOTAL		4,600

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% housing need required in CAT2 wind areas, and 4% housing need in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Housing Model

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Paul Deatrick, LRL 0700 EDT 09/25/2005

Sources:
HURREVAC
LRL-DEBRIS